

07

**Notice of Allowability**

Application No.

09/652,895

Examiner

Xu Mei

Applicant(s)

LI ET AL.

Art Unit

2644

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 08/31/2000.
2. ☒ The allowed claim(s) is/are 1-9 and 15-18.
3. ☒ The drawings filed on 8/31/2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

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1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

2. In the Specification:

The following continuing data is added to Page 1, line 5 of the Specification:

**This is a Divisional application of U.S. application serial number 08/850,887 filed 05/02/1997, now U.S. Patent 6,192,427.**

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lauer, Krauskopf (US-5,053,944, 5,249,278), Laczko, Sr. et al, Circello et al, Rowlands et al, Hohl et al, Xue et al, Warren, Li et al, Matt et al, Bhattacharya, Cheung et al, Kawai et al are made of record here as pertinent art to the claimed invention.

The cited references above (except Xue et al) disclose various apparatus or devices for breakpoint and interruption control for computer data processing system.

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Xue et al discloses an audio decoder apparatus for digital audio signals synchronization and sampling including an arithmetic logic unit with sequence and buffering controls.

4. The following is an Examiner's Statement of Reasons for Allowance:

The prior art fails to disclose or suggest a data processing system (being used for an audio processing system) that including a data processing device for processing a stream of data, wherein the data processing device comprises a first memory circuit operable to hold a portion of the stream of data, the memory circuit having an address port and a data port; a second memory circuit operable to hold a sorted list of a plurality of breakpoint addresses, the plurality of breakpoint addresses each corresponding to an address within the first addressable memory circuit; a first register operable to hold one of the breakpoint addresses; a first comparison circuit connected to the address port of the first memory circuit and to the first register with a breakpoint interrupt request output, the first comparison circuit operable to compare an address provided to the address port with the breakpoint address held in the first register, the first comparison circuit being further operable to assert a breakpoint interrupt request on the

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interrupt request output when the address is equal to the breakpoint address; a third memory circuit for holding a plurality of software routines; and a processing unit connected to the first memory circuit, to the second memory circuit, to the third memory circuit, and to the first register, with an interrupt input connected to the breakpoint interrupt request output; the processing unit operable to form the sorted list of breakpoint addresses, to load the register with a selected breakpoint address from the sorted list, to process data read from the first memory circuit using at least one of the plurality of software routines, to respond to an interrupt signal asserted by the first comparison circuit, and to select a different one of the software routines for processing the data from the first memory in response to the breakpoint interrupt as specifically recited and construed in independent claim 1.

The cited prior arts above discloses various apparatus or devices for breakpoint and interruption control in a computer system, but fail to disclose or suggest the particular combination of elements and their specific functional steps in the instant claimed invention.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to

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avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xu Mei whose telephone number is 703-308-6610. The examiner can normally be reached on Monday-Friday (9:30-6:00), alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 703-305-4040. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**Xu Mei**  
**Primary Examiner**  
**Art Unit 2644**  
03/02/2005